

## Multilayer Chip Ferrite Beads---FBC Series



### Feature

- Wide range of frequency to suppress EMI.
- Wide range of impedance values for various applications.
- Internal silver printed layers and magnetic shielded structure.
- RoHS compliant.
- Operating temperature range  $-55^{\circ}\text{C} \sim 125^{\circ}\text{C}$  (Including self - temperature rise).

### Application

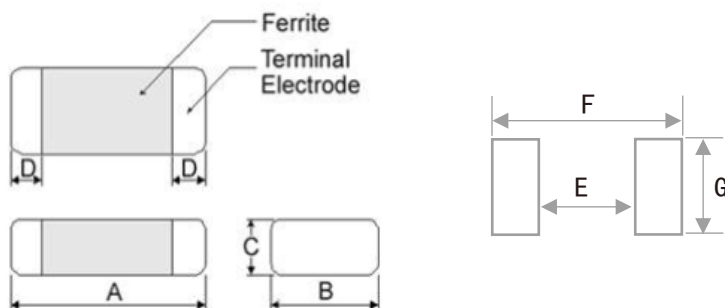
- High frequency EMI prevention of computers, printers, VCRs TVs and portable telephone.

### Production identification

FBC     1005     -     121     Y  
 ①            ②                            ③            ④

- ① Series name: High Current Ferrite Bead
- ② Size:  $1.0 \times 0.5 \times 0.5\text{mm}$
- ③ Impedance:  $120\Omega$
- ④ Tolerance:  $\pm 25\%$

### Series Shape and Dimensions (Unit:mm)



Series	A	B	C	D	$E_{\text{Typ}}$	$F_{\text{Typ}}$	$G_{\text{Typ}}$	SPQ
FBC1005	$1.0 \pm 0.15$	$0.5 \pm 0.15$	$0.5 \pm 0.15$	$0.25 \pm 0.1$	0.4	1.3	0.5	10000
FBC1608	$1.6 \pm 0.15$	$0.8 \pm 0.15$	$0.8 \pm 0.15$	$0.3 \pm 0.2$	0.7	1.8	0.8	4000
FBC2012	$2.0 \pm 0.2$	$1.25 \pm 0.2$	$0.85 \pm 0.2$	$0.5 \pm 0.3$	1.0	2.6	1.2	4000
FBC3216	$3.2 \pm 0.2$	$1.6 \pm 0.2$	$1.1 \pm 0.2$	$0.5 \pm 0.3$	2.0	4.2	1.6	3000

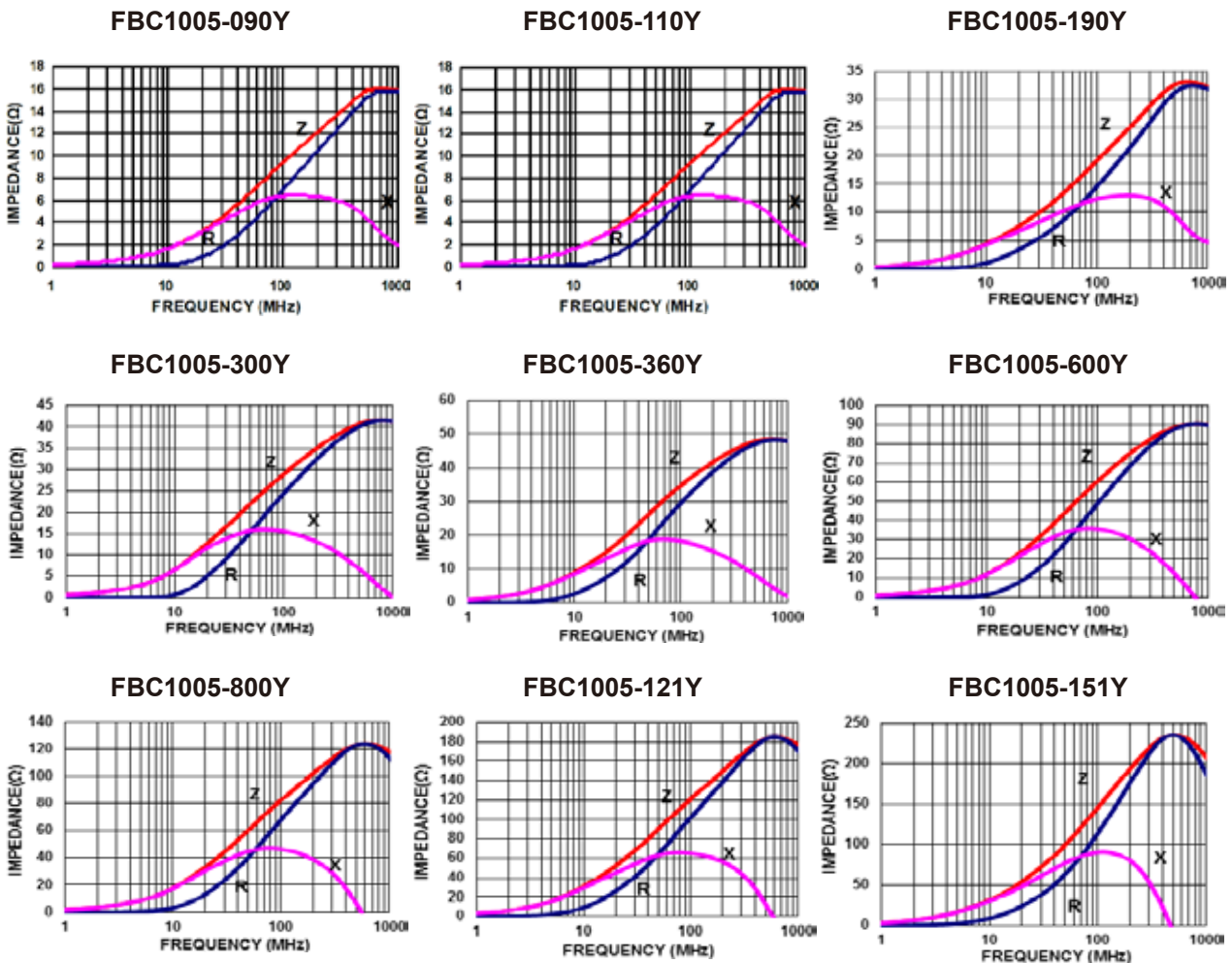
# Multilayer Chip Ferrite Beads---FBC Series



## FBC1005 Electrical Characteristics

Part Number	Impedance ( $\Omega$ )	Tolerance ( $\pm\%$ )	Test Freq. (MHz)	DCR Max ( $\Omega$ )	Current Max (A)
FBC1005-090Y	9	25	100	0.04	0.80
FBC1005-110Y	11	25	100	0.04	0.80
FBC1005-190Y	19	25	100	0.06	0.70
FBC1005-300Y	30	25	100	0.08	0.70
FBC1005-360Y	36	25	100	0.15	0.60
FBC1005-600Y	60	25	100	0.15	0.60
FBC1005-800Y	80	25	100	0.20	0.45
FBC1005-121Y	120	25	100	0.25	0.45
FBC1005-151Y	150	25	100	0.25	0.45
FBC1005-181Y	180	25	100	0.40	0.30
FBC1005-221Y	220	25	100	0.40	0.30
FBC1005-301Y	300	25	100	0.50	0.30
FBC1005-501Y	500	25	100	0.65	0.20
FBC1005-601Y	600	25	100	0.70	0.20
FBC1005-102Y	1000	25	100	1.00	0.20

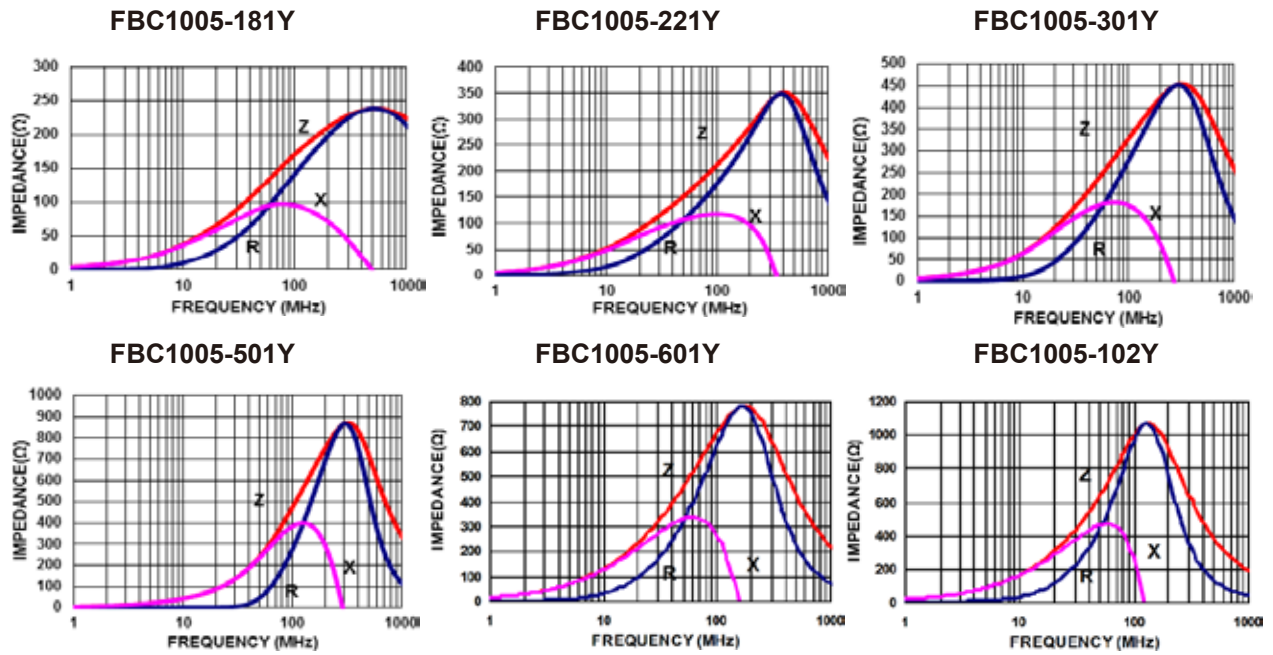
## Typical Impedance vs. Frequency Curves



## Multilayer Chip Ferrite Beads---FBC Series



### Typical Impedance vs. Frequency Curves



#### Notes:

1. Rated Current: Applied the current to chip bead, the temperature rise shall not be more than 30°C.
2. Measuring Equipment:  
 Z: HP4291A      RDC: HP4338B or CHEN HWA 502

## Multilayer Chip Ferrite Beads---FBC Series

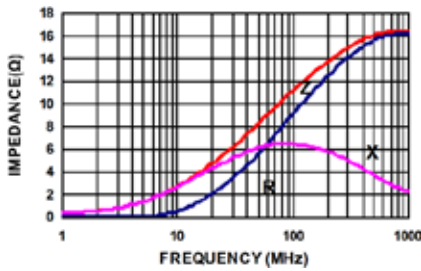


### FBC1608 Electrical Characteristics

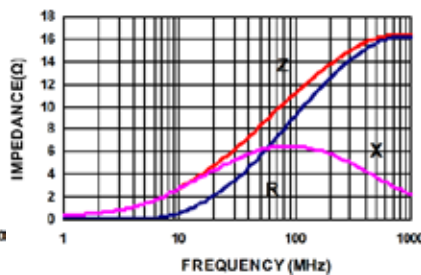
Part Number	Impedance ( $\Omega$ )	Tolerance ( $\pm\%$ )	Test Freq. (MHz)	DCR Max ( $\Omega$ )	Current Max (A)
FBC1608-090Y	9	25	100	0.08	1.00
FBC1608-110Y	11	25	100	0.08	1.00
FBC1608-300Y	30	25	100	0.08	1.00
FBC1608-600Y	60	25	100	0.12	1.00
FBC1608-800Y	80	25	100	0.20	1.00
FBC1608-101Y	100	25	100	0.20	1.00
FBC1608-121Y	120	25	100	0.20	1.00
FBC1608-151Y	150	25	100	0.25	1.00
FBC1608-181Y	180	25	100	0.25	1.00
FBC1608-221Y	220	25	100	0.30	1.00
FBC1608-301Y	300	25	100	0.30	1.00
FBC1608-501Y	500	25	100	0.40	1.00
FBC1608-601Y	600	25	100	0.40	1.00
FBC1608-102Y	1000	25	100	0.55	0.50
FBC1608-122Y	1200	25	100	0.65	0.50
FBC1608-152Y	1500	25	100	0.75	0.40
FBC1608-182Y	1800	25	100	0.80	0.40
FBC1608-202Y	2000	25	100	0.90	0.40

### Typical Impedance vs. Frequency Curves

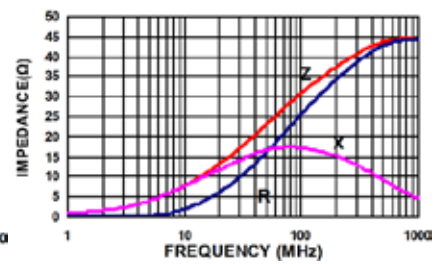
FBC1608-090Y



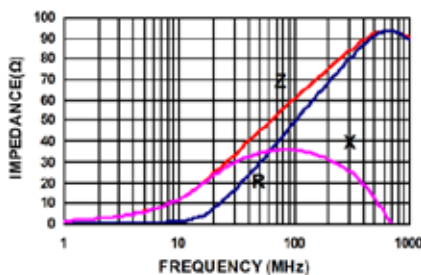
FBC1608-110Y



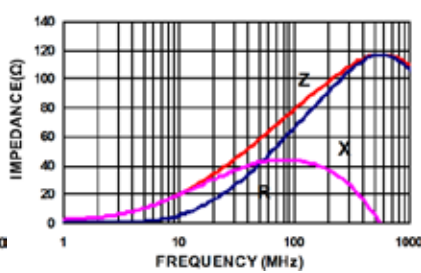
FBC1608-300Y



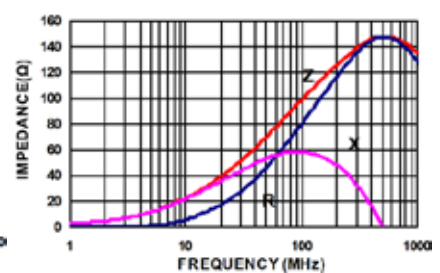
FBC1608-600Y



FBC1608-800Y



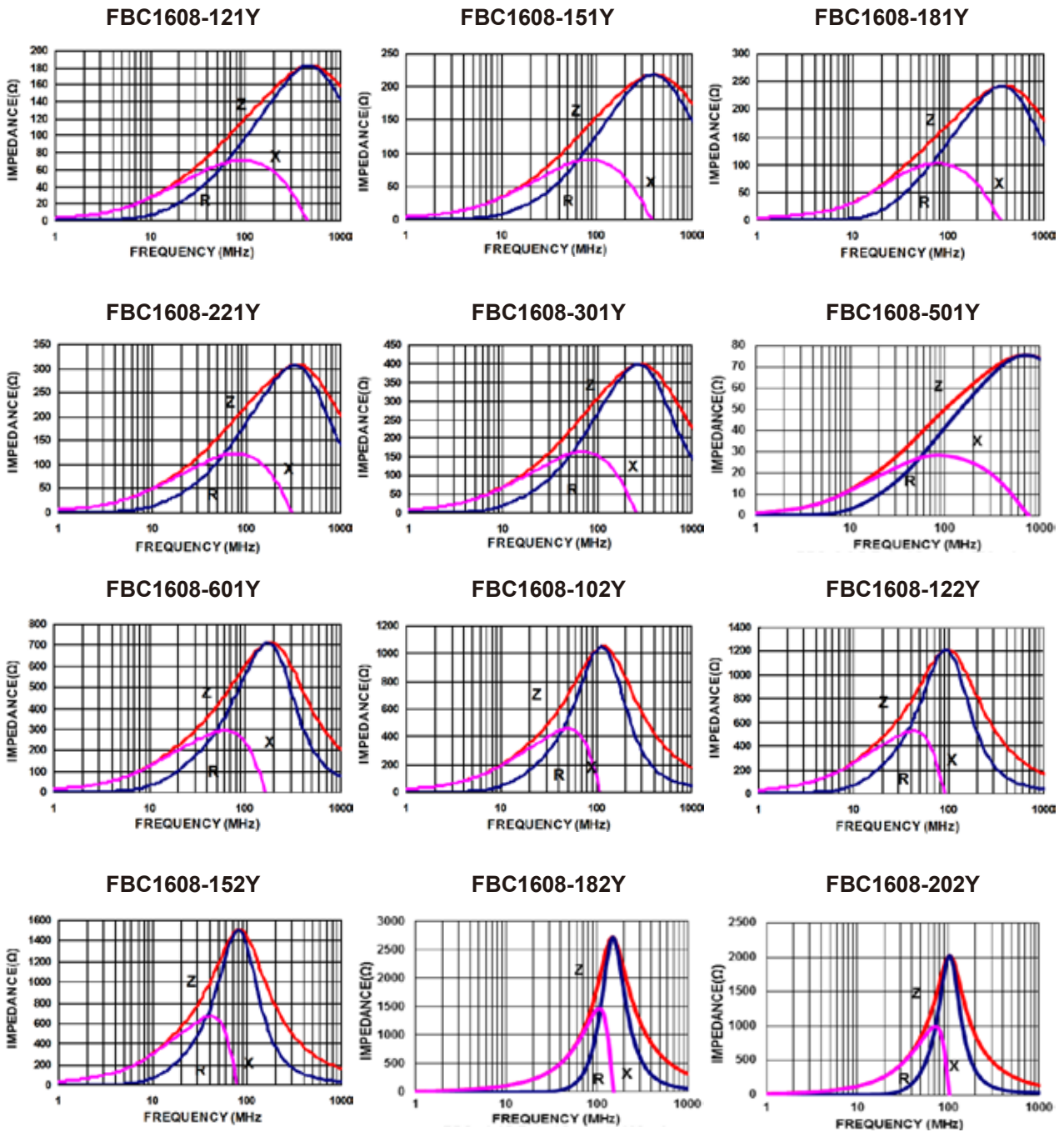
FBC1608-101Y



# Multilayer Chip Ferrite Beads---FBC Series



## Typical Impedance vs. Frequency Curves



### Notes:

1. Rated Current: Applied the current to chip bead, the temperature rise shall not be more than 30°C.
2. Measuring Equipment:  
 Z: HP4291A      RDC: HP4338B or CHEN HWA 502

# Multilayer Chip Ferrite Beads---FBC Series

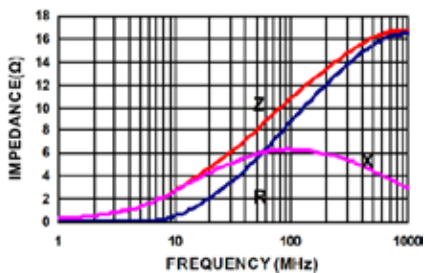


## FBC2012 Electrical Characteristics

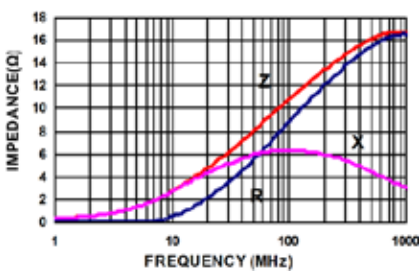
Part Number	Impedance (Ω)	Tolerance (±%)	Test Freq. (MHz)	DCR Max (Ω)	Current Max (A)
FBC2012-090Y	9	25	100	0.03	3.00
FBC2012-110Y	11	25	100	0.03	3.00
FBC2012-190Y	19	25	100	0.03	3.00
FBC2012-300Y	30	25	100	0.05	3.00
FBC2012-600Y	60	25	100	0.06	3.00
FBC2012-800Y	80	25	100	0.08	2.50
FBC2012-101Y	100	25	100	0.10	2.50
FBC2012-121Y	120	25	100	0.10	2.00
FBC2012-151Y	150	25	100	0.10	2.00
FBC2012-181Y	180	25	100	0.15	2.00
FBC2012-221Y	220	25	100	0.15	2.00
FBC2012-301Y	300	25	100	0.20	2.00
FBC2012-501Y	500	25	100	0.25	1.50
FBC2012-601Y	600	25	100	0.25	1.50
FBC2012-801Y	800	25	100	0.30	0.80
FBC2012-102Y	1000	25	100	0.30	0.80
FBC2012-122Y	1200	25	100	0.45	0.50
FBC2012-252Y	2500	25	50	0.60	0.10

## Typical Impedance vs. Frequency Curves

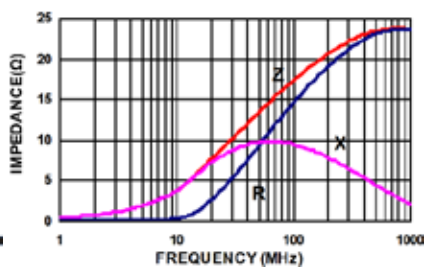
FBC2012-090Y



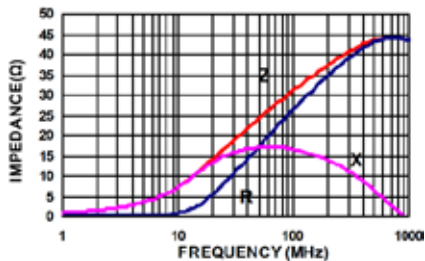
FBC2012-110Y



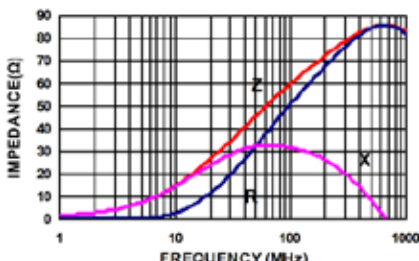
FBC2012-190Y



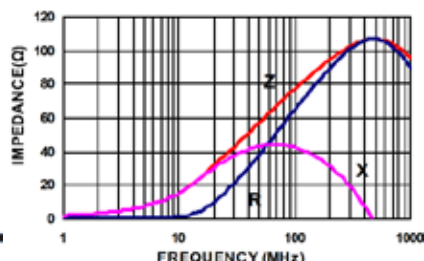
FBC2012-300Y



FBC2012-600Y



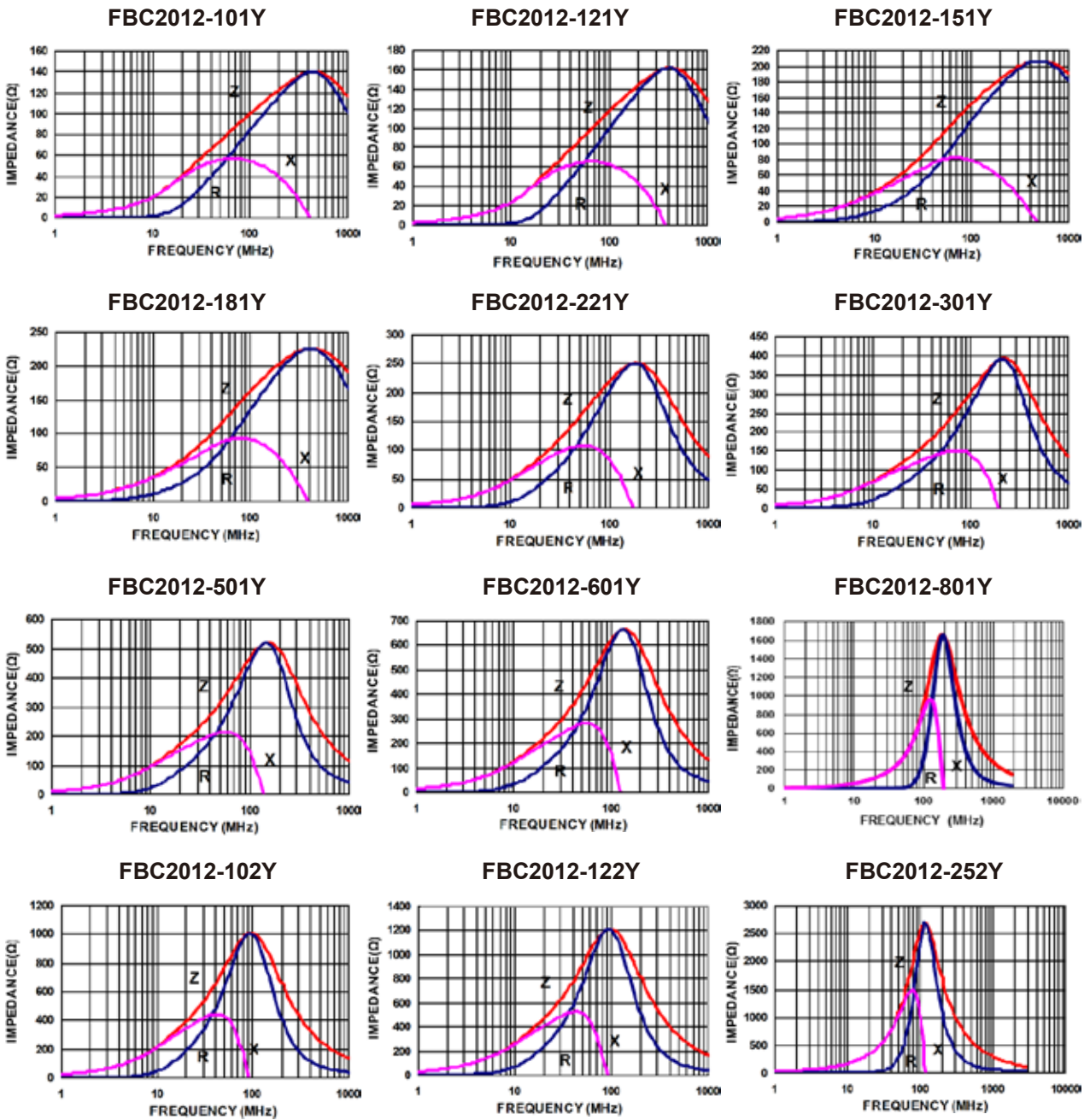
FBC2012-800Y



# Multilayer Chip Ferrite Beads---FBC Series



## Typical Impedance vs. Frequency Curves



Notes:

1. Rated Current: Applied the current to chip bead, the temperature rise shall not be more than 30°C.
2. Measuring Equipment:  
 Z: HP4291A      RDC: HP4338B or CHEN HWA 502

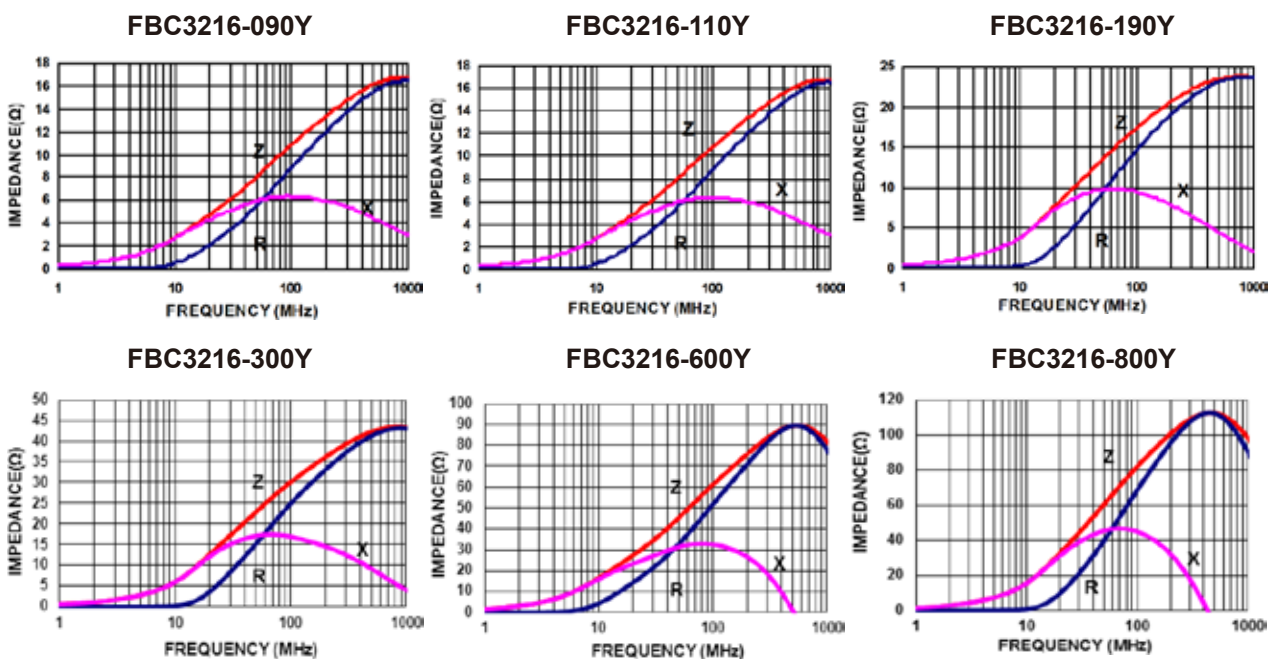
## Multilayer Chip Ferrite Beads---FBC Series



### FBC3216 Electrical Characteristics

Part Number	Impedance (Ω)	Tolerance (±%)	Test Freq. (MHz)	DCR Max (Ω)	Current Max (A)
FBC3216-090Y	9	25	100	0.05	4.00
FBC3216-110Y	11	25	100	0.05	4.00
FBC3216-190Y	19	25	100	0.05	3.00
FBC3216-300Y	30	25	100	0.07	3.00
FBC3216-600Y	60	25	100	0.10	3.00
FBC3216-800Y	80	25	100	0.10	3.00
FBC3216-101Y	100	25	100	0.10	3.00
FBC3216-121Y	120	25	100	0.10	3.00
FBC3216-151Y	150	25	100	0.15	2.50
FBC3216-181Y	180	25	100	0.20	2.50
FBC3216-221Y	220	25	100	0.20	2.50
FBC3216-301Y	300	25	100	0.20	2.00
FBC3216-501Y	500	25	100	0.20	2.00
FBC3216-601Y	600	25	100	0.25	2.00
FBC3216-801Y	800	25	100	0.25	2.00
FBC3216-102Y	1000	25	100	0.30	2.00
FBC3216-122Y	1200	25	100	0.35	1.00
FBC3216-152Y	1500	25	50	0.45	0.50
FBC3216-182Y	1800	25	50	0.60	0.50
FBC3216-202Y	2000	25	50	0.70	0.30

### Typical Impedance vs. Frequency Curves

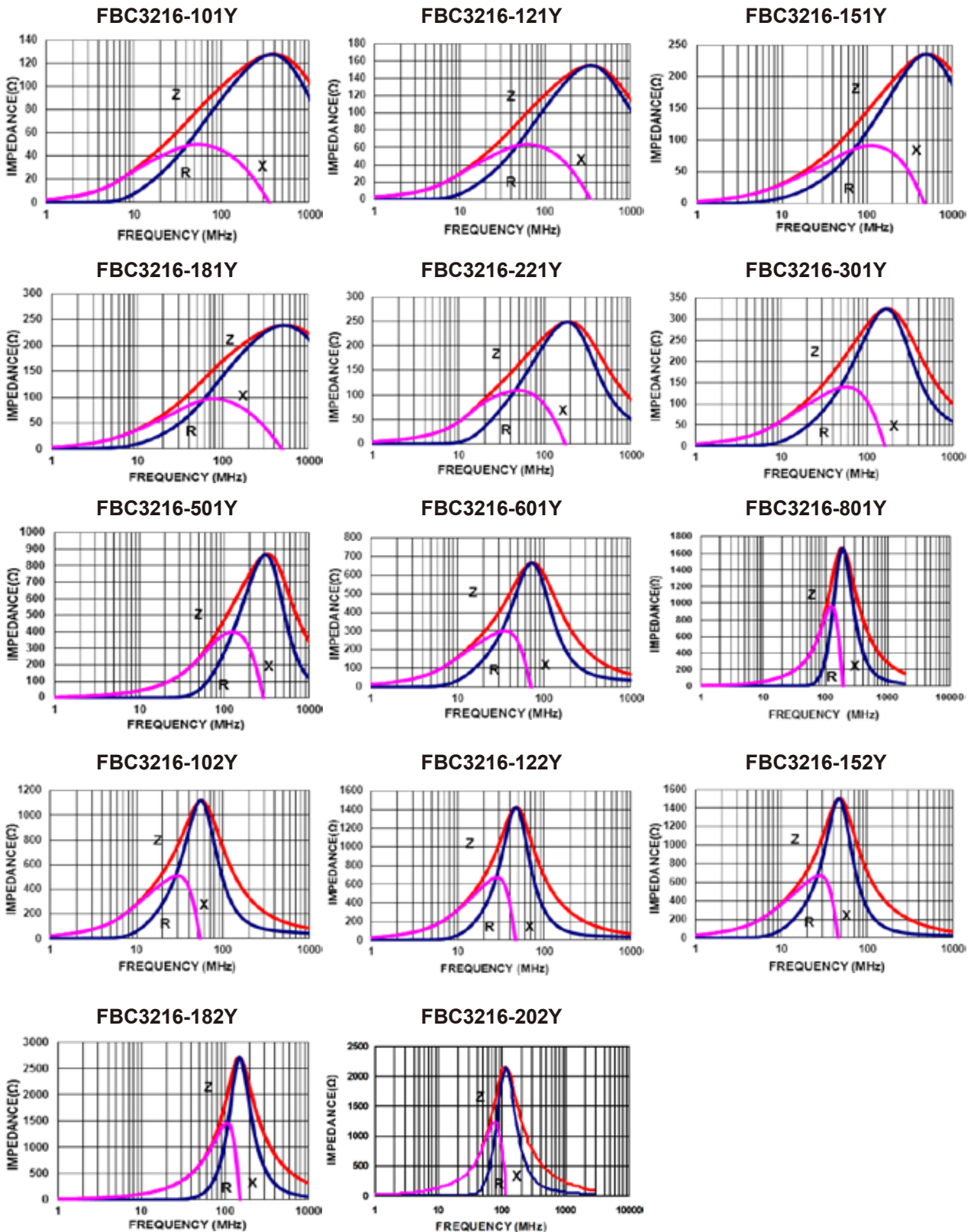




## Multilayer Chip Ferrite Beads---FBC Series



### Typical Impedance vs. Frequency Curves



#### Notes:

1. Rated Current: Applied the current to chip bead, the temperature rise shall not be more than 30°C.
2. Measuring Equipment:  
 Z: HP4291A      RDC: HP4338B or CHEN HWA 502

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